## Index of Claims

## \*09931937\*

| Application No. | Applicant(s)    |  |
|-----------------|-----------------|--|
| 09/931,937      | KAMINAGA ET AL. |  |
| Examiner        | Art Unit        |  |
| Minh Dinh       | 2132            |  |

| <b>√</b> | Rejected | _ | (Through numeral) Cancelled | N | Non-Elected  | A | Appeal   |
|----------|----------|---|-----------------------------|---|--------------|---|----------|
| =        | Allowed  | ÷ | Restricted                  | ı | Interference | 0 | Objected |

| Cla          | aim      |         | _            |  | -            | Date   | е                                   |                 |            | 1        | Ē        | Clair           | n        |          |                    | נ   | Date     |         |         | `               | argit                   | CI    | aim        |          |         |                | Dat                                    | е            | _               |          |          |
|--------------|----------|---------|--------------|--|--------------|--|-------------------------------------|-----------------|------------|----------|----------|-----------------|----------|----------|--------------------|---|----------|---------|---------|-----------------|-------------------------|-------|------------|----------|---------|----------------|--|--------------|-----------------|----------|----------|
|              | _        | _       |              |  |              |  |                                     | П               |            |          |          |                 | _        |          | Т                  |   |          |         |         |                 | Argii<br>Argii<br>argii |       | =          |          |         |                |  |              | П               |          |          |
| Final        | Original | 11/9/04 |              |  |              | l  |                                     |                 | l          |          | 10       | Final           | Original |          |                    |   |          |         |         |                 | m*14                    | Final | Original   |          |         |                | -                                      |              |                 |          |          |
| ΙĒ           | Ĕ,       | 11/8    |              |  |              | l  |                                     |                 | 1          |          | i        | iĒ              | 듯.       |          |                    |   |          | -       |         |                 | i u                     | ίĒ    | ij         | - 1      |         | İ              |  |              |                 |          | ļ        |
|              | ٦        |         |              |  |              | ļ  |                                     |                 |            |          | à        |                 |          |          |                    |   |          |         |         |                 |                         |       | 1          |          |         |                |  | <u>l</u>     |                 | $\perp$  |          |
|              | 1        | 1       |              | Г  |              |  |                                     |                 |            |          | Г        |                 | 51       |          | T                  |   |          |         | 1       |                 | 13                      |       | 101        |          |         |                |  |              |                 | $\Box$   |          |
|              | 2        | $\Box$  |              |  |              |  |                                     |                 |            | ]        |          |                 | 52       |          |                    |   |          |         |         |                 |                         |       | 102        |          |         |                |  |              |                 |          |          |
|              | 3        |         |              |  | L            | L  |                                     |                 |            |          | 4        |                 | 53 ·     |          |                    |   |          |         |         |                 | 1134                    |       | 103        |          |         |                |  |              |                 |          |          |
|              | 4        |         |              |  |              |  |                                     |                 |            | 16.19    | 25       |                 | 54       |          |                    |   |          |         |         |                 | T.                      |       | 104        |          |         |                |  |              |                 |          |          |
|              | 5        | T       |              |  |              |  |                                     |                 |            |          |          |                 | 55       |          |                    |   |          |         |         |                 | À                       |       | 105        |          |         |                |  |              |                 |          |          |
|              | 6        |         |              |  |              |  |                                     |                 |            | <u> </u> | :E       |                 | 56       |          |                    |   |          |         |         |                 |                         |       | 106        |          |         |                |  |              |                 |          |          |
|              | 7        | Ц       |              | 乚  |              |  |                                     |                 |            | _ 1      |          |                 | 57       |          | 上                  |   | Ш        |         |         |                 | .4                      |       | 107        |          |         | $\perp$        |  |              | Ш               | $\dashv$ |          |
|              | 8        | Ц       |              | L  |              |  | L                                   | Ш               |            | 4.7      |          |                 | 58       | $\perp$  |                    |   | Ш        | $\perp$ | $\perp$ |                 |                         |       | 108        | $\dashv$ |         |                | 1_                                     | <u> </u>     |                 | _        |          |
|              | 9        | Ц       | L            | L  | L            | L  | <u> </u>                            |                 |            |          | L        |                 | 59       |          | $\perp$            |   |          | $\perp$ |         |                 |                         |       | 109        |          | $\perp$ |                | 1                                      |              |                 |          |          |
|              | 10       | Ц       | L            | ╙  |              | <u> </u>   |                                     |                 |            |          |          |                 | 60       |          |                    |   |          |         |         |                 | 1                       |       | 110        | $\perp$  |         |                | L                                      | <u> </u>     |                 | _        | _        |
|              | 11       | Ц       | _            | <u> </u>   |              | _  | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ | Ш               |            | 1        | <u> </u> |                 | 61       | $\bot$   | _                  | Ш   | Ш        | $\perp$ | $\perp$ | Ш               | - 1                     |       | 111        | $\perp$  | $\perp$ | $\perp$        | $\perp$                                | $\perp$      | Ш               |          | _        |
| L            | 12       | 1       | ↓_           | <b>!</b>   | _            | <u> </u>   | _                                   | Ш               | $\perp$    | ]        |          |                 | 62       | $\bot$   |                    | <u> </u>  | Щ        | $\bot$  | $\perp$ | Ш               | - 46                    |       | 112        |          | $\perp$ | 4              | ــــــــــــــــــــــــــــــــــــــ | <u> </u>     | Щ               |          | _        |
| <u> </u>     | 13       |         | ╙            | <u>L</u>   | L            | <u> </u>   | <u></u>                             | $\sqcup$        | _          | _        | 1        |                 | 63       |          | _                  | _   | Ш        | $\perp$ |         |                 | 101                     |       | 113        | _        |         | 4              | $\perp$                                | <u> </u>     | Ш               | _        | _        |
| L            | 14       | _       | $\vdash$     | <u> </u>   | <u> </u>     | _  | Ш                                   | Ш               |            | _        | : _      |                 | 64       |          | 1                  | _   | Ш        | $\perp$ | _       | Щ               | - 8<br>14               |       | 114        | $\dashv$ | _       | 4-             | 1_                                     | 1_           | Ш               |          | _        |
|              | 15       | _       | ╙            | <u> </u>   | _            | _  | Ш                                   | Ш               | $\perp$    | 4.       | Ŀ        |                 | 65       | _ _      | ļ                  | <u> </u>  |          |         | -       | Щ               |                         |       | 115        |          | $\perp$ | $\perp$        | _                                      | 1_           | Ш               | ļ        | _        |
| L            | 16       |         | $\vdash$     | L_   | L            | <u> </u>   | Щ                                   | Ш               | _          |          | -        |                 | 66       | $\bot$   | $oldsymbol{\perp}$ |   | Ш        | $\perp$ | _       | Ш               |                         |       | 116        | $\dashv$ | _       | $\perp$        | _                                      | 1            | Ш               | $\dashv$ | _        |
|              | 17       |         | ┖            | <u> </u>   | ㄴ            | L  |                                     | $\sqcup$        |            | 4,       | _        |                 | 67       |          |                    |   | $\Box$   | $\perp$ | $\perp$ | Ш               | 1                       |       | 117        | _        |         |                | ┸                                      | _            | Ш               | $\dashv$ | _        |
|              | 18       |         | L            | <u> </u>   | L.           | <u> </u>   |                                     |                 |            | 4.       | _        |                 | 68       | _        | ╙                  |   | $\dashv$ |         | _       | Ш               |                         |       | 118        | _        | _       | $\bot$         | 4_                                     |              | Ш               | _        | _        |
|              | 19       |         | _            | _  | _            | _  |                                     | $\sqcup$        | _          | _        | _        |                 | 69       |          | ↓_                 | _   | $\Box$   |         |         | L               |                         |       | 119        |          |         | $\perp$        | _                                      | <u> </u>     | Ш               | _        | _        |
|              | 20       |         | <u> </u>     | ļ  | _            |  |                                     |                 |            | _        | _        |                 | 70       |          | 1_                 | _   | 4        |         |         |                 |                         |       | 120        | _        | _       | _              | ╄                                      | _            |                 | _        | _        |
|              | 21       |         | L            | <u> </u>   |              |  | Щ                                   | Ш               |            | 14,      |          |                 | 71       |          | <u> </u>           |   |          |         |         | Ш               | i i                     |       | 121        |          | _       |                | ╙                                      |              | Ш               | _        | _        |
|              | 22       |         |              | ╙  |              |  |                                     | Ш               |            | 18       | _        |                 | 72       |          |                    |   |          |         |         | Ц               | . ;                     |       | 122        | _        | _ _     |                | _                                      | _            | Щ               | _        | _        |
|              | 23       |         | L            | L_   | _            |  |                                     | $\sqcup$        | _          | _        |          |                 | 73       |          | <u> </u>           |   |          | _ _     |         |                 | . 0                     |       | 123        | _        | 4.      | $\perp$        | <u> </u>                               | _            | Ш               | _        | $\dashv$ |
| <u> </u>     | 24       |         | _            | <u> </u>   | <u> </u>     | L.   |                                     | $\sqcup$        | _          | yte      | _        |                 | 74       |          | <u> </u>           |   |          | $\perp$ | _       |                 |                         |       | 124        | _        | _       | _              | 1                                      | <u> </u>     | Ш               | 4        | _        |
|              | 25       |         | ▙            | L.   | <u> </u>     | L.   |                                     | $\sqcup$        | $\perp$    |          | -        |                 | 75       |          | _                  |   | Ш        |         |         |                 | ٠, ٠                    |       | 125        | _        |         | 4              | _                                      | ļ            |                 | _        | $\dashv$ |
| <u> </u>     | 26       |         | ┺            | Ц.   | _            | L.   |                                     | Ш               |            | 4        | 12       |                 | 76       |          | ↓_                 | _   |          | $\perp$ | _       |                 | . 3                     |       | 126        | -        | 4       |                | ╀-                                     | <u> </u>     | Ш               | 4        | ᅴ        |
| <u> </u>     | 27       | _       | ┺            | ╙  | _            | _  |                                     |                 |            | _        | L        |                 | 77       |          | ↓_                 | _   |          |         | 4-      |                 | 17.                     |       | 127        | _        | _       |                | 1_                                     | <u> </u>     | <u> </u>        | 4        | 4        |
|              | 28       |         | ┡            | <u> </u>   | _            | _  |                                     |                 | _          | _        | 4        |                 | 78       |          | ↓                  |   | Ш        |         | _       | Ш               |                         |       | 128        | _        | $\bot$  | _              | ╀                                      | <u> </u>     |                 | 4        | ᆜ        |
|              | 29       |         | ┞            | _  | _            | -  |                                     | $\sqcup$        | _          | - 1      | <u> </u> |                 | 79       | $\dashv$ | igwdap             | $ldsymbol{ld}}}}}}$ | Ш        | $\perp$ | _       | Щ               | 2.7                     |       | 129        |          | _       | <del>- -</del> | ╄-                                     | _            |                 | _        | _        |
|              | 30       |         | ļ.,          | <b> </b>   | <u> </u>     | _  |                                     |                 |            | - 3      | _        |                 | 80       |          | _                  | _   | Ш        |         |         | _               |                         |       | 130        |          | _       | _              | ↓                                      | ╄            |                 | 4        | ᅴ        |
|              | 31       |         | ┡            | _  | <u> </u>     | <u> </u>   |                                     |                 | -          | - 1      | _        |                 | 81       |          | ╄                  |   |          | +       |         |                 | ė.                      |       | 131        | -        |         | - -            | ┼-                                     | ┞-           |                 | _        | ᆜ        |
|              | 32       |         | ┡            | <u> </u>   | <u> </u>     |  | <u> </u>                            | $\sqcup$        | _          |          |          |                 | 82       |          |                    | Щ   |          | _       | _       |                 | 40 E                    |       | 132        |          | _       |                | ╁_                                     | ļ.,          | $\sqcup$        | _        | _        |
| <u> </u>     | 33       |         | -            | _  | <u> </u>     | ₩  | $\vdash$                            | $\vdash$        | -          | 4        | -        |                 | 83       | +        | ╄                  | <u> </u>  | $\sqcup$ | -       | —       | $\vdash$        | 1                       |       | 133        | $\dashv$ | -       | +              | ╁-                                     | <del> </del> | $\sqcup$        | $\dashv$ | 4        |
| -            | 34       | _       | <del> </del> | -  | -            | 1  | Н                                   | $\vdash$        | -          | - 3      | -        |                 | 84       |          | <del> </del>       | H   | $\vdash$ | +       | -       | Н               | - 1                     |       | 134        | +        | +       | +              | +                                      |              | $\vdash \vdash$ | $\dashv$ | ᅴ        |
| <b></b>      | 35       |         | ┢            | -  | <u> </u>     |  | $\vdash$                            |                 | +          | -        | -        |                 | 85       | +        | ╀                  | Н   | $\dashv$ | +       | +       | Н               |                         |       | 135        | -+       | +       | +              | +                                      | <del> </del> | $\sqcup$        | $\dashv$ | 4        |
| <u> </u>     | 36       |         | -            | ├  | ├—           | $\vdash$   | $\vdash \vdash$                     | ╁               |            | -        | ,        |                 | 86       |          | ┼                  | Н   | $\vdash$ | +       | +       | Н               | - 1                     |       | 136        | $\dashv$ | -       | +              | +-                                     |              | $\vdash$        | -+       | 긕        |
| <u> </u>     | 37<br>38 | _       | -            | <u> </u>   | ├-           | ├  | $\vdash$                            | $\vdash \vdash$ | +          | 4        | 3        |                 | 87       | -        | ┼-                 | Н   | $\vdash$ | +       | +-      | $\vdash \vdash$ |                         |       | 137        | $\dashv$ | +       | +              | +                                      | ₩            | $\vdash \vdash$ | $\dashv$ | $\dashv$ |
|              | 38       |         | -            | -  | <del> </del> | ├—   | $\vdash\vdash$                      | ┝┥              | +          | -1.      | -        |                 | 88       |          | +-                 | $\vdash$  | $\vdash$ | -       |         | Н               | 13.6                    |       | 138        | $\dashv$ | -       | +-             | +                                      | $\vdash$     | $\vdash \vdash$ | $\dashv$ |          |
|              | 40       |         | $\vdash$     | ├-   |              | $\vdash$   | Н                                   | $\vdash$        | $\dashv$   | -        | <u>.</u> |                 | 89<br>90 |          | ┼                  | Н   |          |         | +       | Н               |                         |       | 139<br>140 | +        |         | +-             | +-                                     | ├            | $\vdash$        | $\dashv$ | 닉        |
| -            | 41       | _       | ⊢            | ⊢  | $\vdash$     | $\vdash$   | $\vdash$                            | $\vdash$        | -          |          | -        |                 | 90       | +        | ╁                  | Н   | $\vdash$ | +       | +       | $\vdash$        |                         |       | 141        | $\dashv$ | +       | +              | +                                      | $\vdash$     | $\vdash$        | $\dashv$ | ᅴ        |
| <del> </del> | 42       | -       | $\vdash$     | $\vdash$   | ├-           | $\vdash$   | $\vdash$                            | $\vdash$        | -+         | - ".     | -        |                 | 92       | +        | ╁                  | $\vdash$  | $\dashv$ | +       | +       | $\vdash$        | 4                       |       | 141        | -        | +       | -              | +-                                     | ├            | $\vdash$        | $\dashv$ | $\dashv$ |
| <u> </u>     | 43       | _       | $\vdash$     | $\vdash$   |              | -  | $\vdash$                            | $\vdash$        |            |          | -        |                 | 93       | +        | $\vdash$           | Н   | -        | +       | +       | $\vdash$        | . }                     |       | 142        |          | +       | +-             | +-                                     | ├            | $\vdash \dashv$ | -+       | $\dashv$ |
| -            | 44       |         | -            | <del> </del>                                     | ├─           | -  | $\vdash\vdash$                      | ┝┼              |            | - 30     | -        | -+:             | 93       |          | $\vdash$           | $\vdash$  | $\dashv$ | +       | +       | Н               | 7                       |       | 143        |          | +       | +-             | +-                                     | -            |                 | $\dashv$ | ᅱ        |
|              | 45       |         | -            | $\vdash$   | -            | -  |                                     | ┝┼              | +          |          | ⊬        |                 | 95       | +-       | ╁╌                 | -   | $\dashv$ | +       | +-      | $\vdash$        | LIBERT .                |       | 145        | $\dashv$ | +       | +-             | ┿                                      | +-           | $\vdash$        | $\dashv$ | $\dashv$ |
|              | 46       |         | ├—           | <del>                                     </del> | -            | <del>                                     </del> | H                                   | ⊢┼              | +          | - 4      |          |                 | 95<br>96 |          | ┼-                 | $\vdash$  |          | +       | +-      | Н               | -                       |       |            | $\dashv$ | +       | +              | +-                                     | -            | $\vdash$        | $\dashv$ | $\dashv$ |
|              | 47       |         | ├            | -  | <del> </del> | -  | $\vdash\vdash$                      | $\vdash \vdash$ | -          | -        | $\vdash$ | -+:             | 96<br>97 |          | -                  | Н   |          | +       | +       | Н               | 1                       |       | 146<br>147 | +        | +       | +-             | +-                                     | -            | $\vdash$        | $\dashv$ | $\dashv$ |
| ļ <u>-</u>   | 48       |         | $\vdash$     | -  | -            | $\vdash$   | -                                   | $\vdash \vdash$ | +          | -        |          |                 | 98       |          | $\vdash$           | Н   | -        | +       | +       | Н               |                         |       | 147        | +        | +       | +-             | +-                                     | $\vdash$     | $\vdash$        | $\dashv$ | $\dashv$ |
|              | 49       | -       | ├-           | ├  | ļ            | $\vdash$   | Н                                   | $\vdash \vdash$ | +          | -        | $\vdash$ | <del>-+</del> : | 98       |          | +-                 | Н   | +        | +       | +       | $\vdash$        |                         |       | 148        | $\dashv$ |         | +-             | +-                                     | ├~           | $\vdash$        | -+       | $\dashv$ |
| $\vdash$     | 50       |         | $\vdash$     | ├─   | <u> </u>     |  | $\vdash$                            | $\vdash$        | +          | - W      | .⊢       | -   3           | 00       |          | +-                 | H   | -+       | +       | +-      | H               | }                       |       | 150        | $\dashv$ | +       | ╁              | +                                      | $\vdash$     | $\vdash$        | $\dashv$ | $\dashv$ |
|              | 50       |         |              | Ь.   | L            | L  | Ш                                   |                 | _ <u> </u> |          | `        |                 | 00       |          | <u> </u>           |   |          |         |         | لــا            | ٠ ل                     |       | 130        |          |         |                | <del></del>                            | L            | ட்              | L        |          |